Table 3.—Maximum free-air wind velocities (m. p. s.), for different sections of the United States, based on pilot-balloon observations during October 1943

	Surface to 2,500 meters (m. s. l.)				Between 2,500 and 5,000 meters (m. s. l.)					Above 5,000 meters (m. s. l.)					
Section	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station
Northeast 1	46.9	w.	1,020	29	Portland, Maine	43.8	wnw.	5,000	7	Caribou, Maine	71.2	sw.	11, 200	3	Mt. Washington, N.
East-Central 2 Southeast 3 North-Central 4.	33. 9 27. 6 33. 4	nw. w. s.	2, 160 2, 320 1, 720	19 16 13	Greensboro, N. O Mobile, Ala Alpena, Mich	38. 1	nw. w. w.	4, 150 4, 960 4, 790	20 31 29	Washington, D. C Charleston, S. C Muskegon, Mich	60.8 48.3 59.8	wsw. w. wnw.	11, 010 14, 640 16, 330	4 21 27	H. Raleigh, N. C. Mobile, Ala. International Falls,
Central 5. South-Central 6. Northwest 7. West-Central 8. Southwest 9	38. 8 40. 0 54. 6 43. 0 43. 2	ne. wsw. s. sse. ssw.	1,650 2,430 1,210 2,500 1,900	11 30 24 26 18	Des Moines, Iowa Abilene, Tex Tatoosh Island, Wash Sacramento, Calif Winslow, Ariz	43.6	nw. wnw. sw. sse. nnw. s.	4,840 4,220 4,780 2,620 4,840 4,530	15 15 24 26 11 26	Wichita, Kans Little Rock, Ark Burns, Oreg Sacramento, Calif Las Vegas, Nev Sandberg, Calif	62. 5 78. 8	WSW. DW. WSW. SW.	9, 440 14, 190 12, 990 9, 220 11, 050	31 25 26 17 22	Minn. Wichita, Kans. Big Spring, Tex. Billings, Mont. Rodding, Calif. Phoenix, Ariz.

RIVER STAGES AND FLOODS

By C. R. JORDAN

Precipitation during October as compared with normal was variable over the entire country. Amounts were well above normal over the northeastern section and extending as far south as Maryland and northeastern Virginia. The Ozark region, the North Central Plains, and the far Northwest also received above normal precipitation. Amounts were very scanty in sections of the Southwest and also the Southeast.

Unusually low river stages continued during October in most of the southern two-thirds of the country, especially in the southeastern section.

October was the second consecutive month with no floods of consequence reported in the United States. There were two periods of rather heavy rainfall over the Northeast during the month but the initial river stages were low and the soil was in most cases unusually dry with the result that bankful stages were reached only in a few headwater streams.

Atlantic Slope drainage.—Heavy rains, resulting in amounts of from 2 to 5 inches over much of the area, occurred in the northeastern section of the country from October 16-19. Flash floods resulted in some sections of Maine, especially in the Little River at Belfast, Maine, which carried away the dam providing the municipal water supply, a 200-foot steel bridge, and four smaller bridges, as well as causing some damage to streets and cellars in the vicinity. The Sandy River near Farming⁶ Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western

ennessee.

7 Montana, Idaho, Washington, and Oregon.

Wyoming, Colorado, Utah, northern Nevada and northern California.

8 Southern California, southern Nevada, Arizona, New Mexico, and extreme west

ton overflowed its banks and caused some damage to roads and cellars. Slight damage also resulted in the Androscoggin Valley. No estimate of the damage sustained has been compiled.

Rainfall of from 2 to 3 inches occurred again over the Northeast from October 26-28, and produced moderate rises in most of the streams. The Susquehanna River exceeded flood stage slightly at Oneonta, N. Y., on the 27th and the Tioughnioga River at Whitney Point, N. Y., reached a stage a little in excess of the established flood stage on the 29th. No damage resulted.

Mississippi Basin.—The Mississippi River just reached flood stage (12 feet) at Louisiana, Mo., on October 3 and 4. This stage resulted from the manipulation of Dam No. 24

and no damage occurred.

FLOOD-STAGE REPORT FOR OCTOBER 1943

[All dates in October]

River and station	Flood stage	Above stages		Crest		
	Suage	From-	то—	Stage	Date	
ATLANTIC SLOPE DRAINAGE Tioughnioga: Whitney Point, N. Y Susquehanna: Oneonta, N. Y MISSISSIPPI SYSTEM	Feet 12 12	29 27	29 27	Feet 12.6 12.1	29 27	
Upper Mississippi Basin Mississippi: Louisiana, Mo	12	3	4	12.0	8-4	

¹ Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.
¹ Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennssee, and North Carolina.
¹ South Carolina, Georgia, Florida, and Alabama.
¹ Shoth Carolina, Georgia, Florida, and Alabama.
¹ Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.
¹ Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.